

AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing
A.B.N 43 006 014 106
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031
P.O Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2400

TEST REPORT

Client : Orafol Australia
8 Blanck Street
Ormeau QLD 4208

Test Number : 21-004060
Issue Date : 16/08/2021
Print Date : 16/08/2021

Sample Description Clients Ref : "Oraguard 210"
Flexible self adhesive film
Colour : Clear
End Use : Wall covering
Nominal Composition : Blended PVC, Solvent: Polyacrylate
Nominal Mass per Unit Area/Density : Approx 100g/m2
Nominal Thickness : 70 Micron

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter
Date Tested 16-08-2021
Face Tested FACE

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	23.1	23.1	24.5	23.5	kW/m ²
Average Specific extinction area	36.6	31.1	44.4	37.4	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	28	30	24	27	sec
Test duration	209	211	205	208	sec
Peak heat release after ignition	86.1	79.7	92.1	85.9	kW/m ²
Average heat at 60 s	43.0	41.4	45.1	43.2	kW/m ²

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Fiona McDonald

APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR

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Average heat at 180 s	23.1	23.4	24.5	23.6	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	4.1	4.2	4.4	4.2	MJ/m ²
Average effective heat of combustion	4.1	4.1	4.5	4.2	MJ/kg
Initial thickness	10.1	10.1	10.1	10.1	mm
Initial mass	57.3	57.8	57.4	57.5	g
Mass remaining	49.2	49.5	49.3	49.3	g
Mass percentage pyrolysed	14.2	14.4	14.2	14.2	%
Mass loss	1.0	1.0	1.0	1.0	kg/m ²
Average rate of mass loss	5.6	5.6	5.5	5.6	g/m ² .s
Additional Observations	NONE				
Difficulties Encountered during Testing	NONE				

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder. Specimens were self adhered to 10mm thick plasterboard prior to testing

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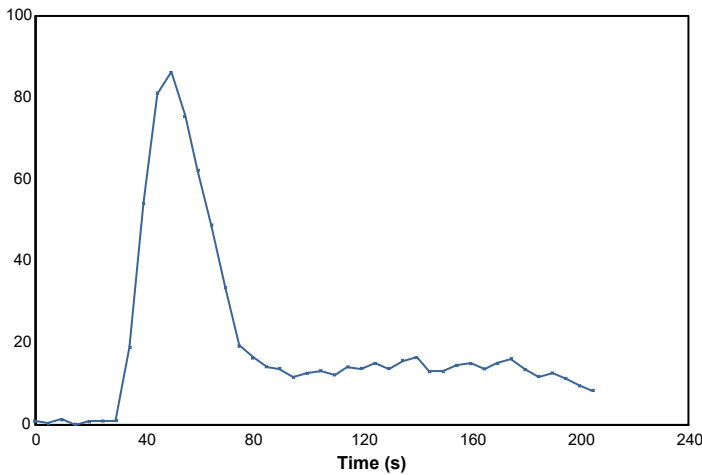
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Client : Orafol Australia
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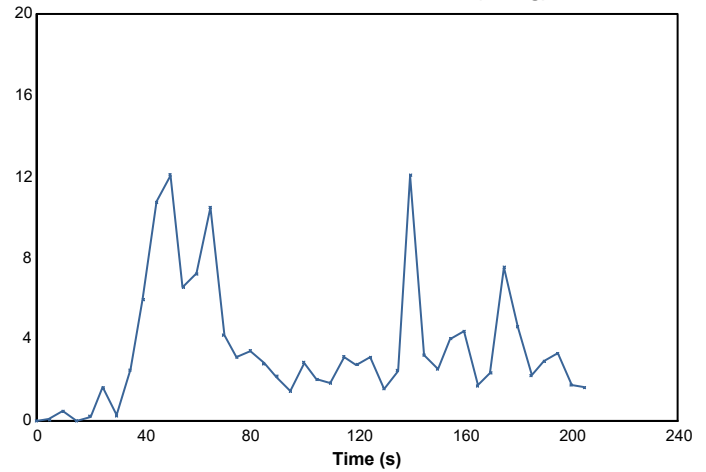
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Specimen : 1

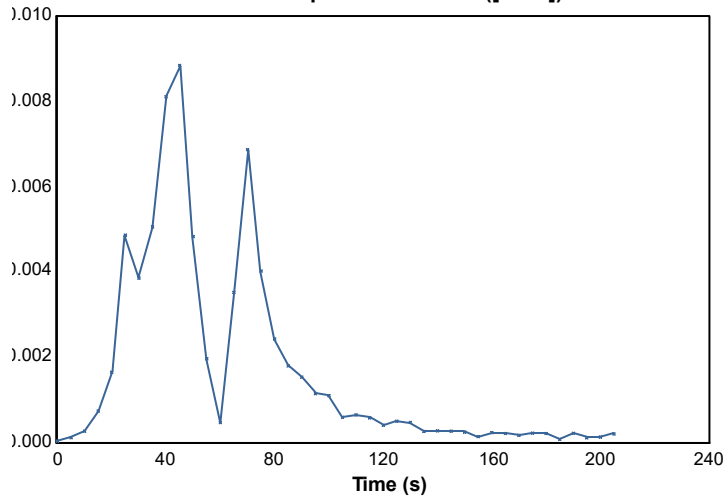
Heat release rate (kW/m²)



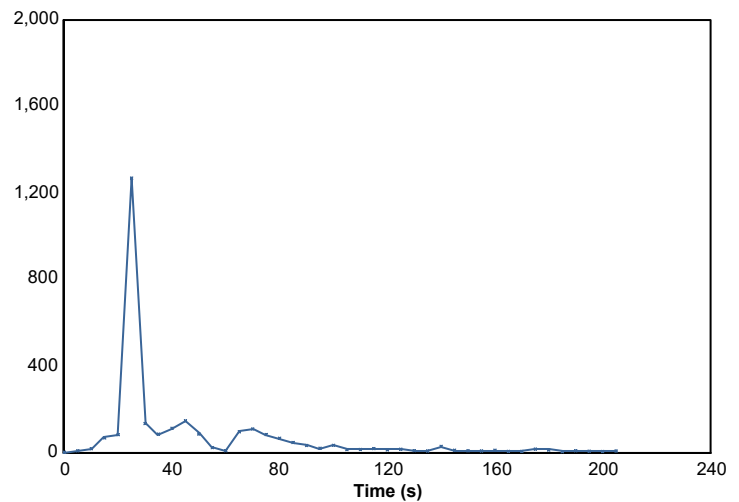
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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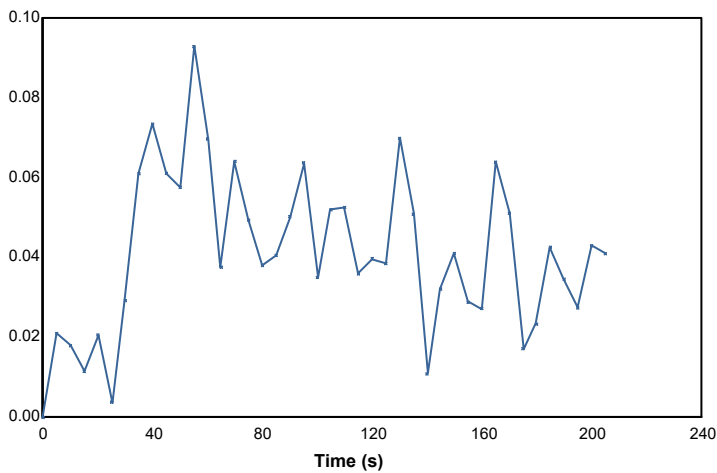
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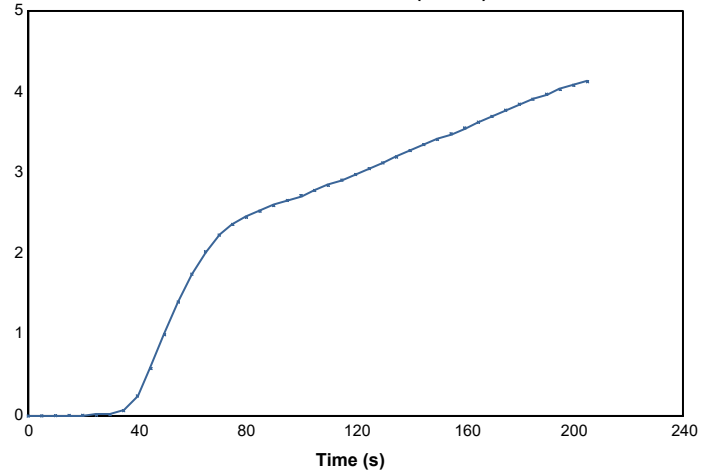
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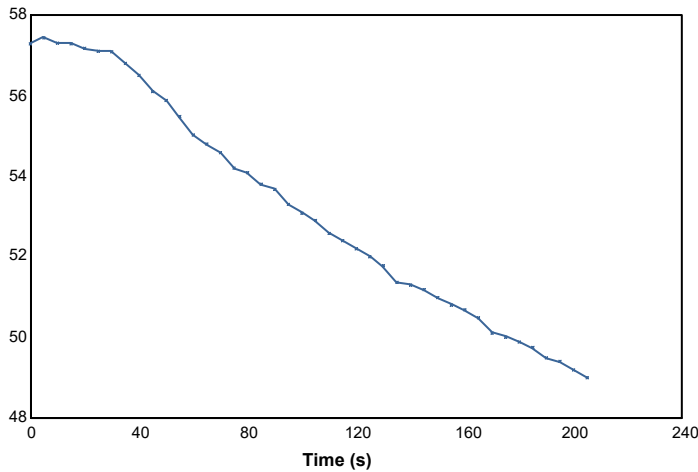
Mass loss rate (g/s)



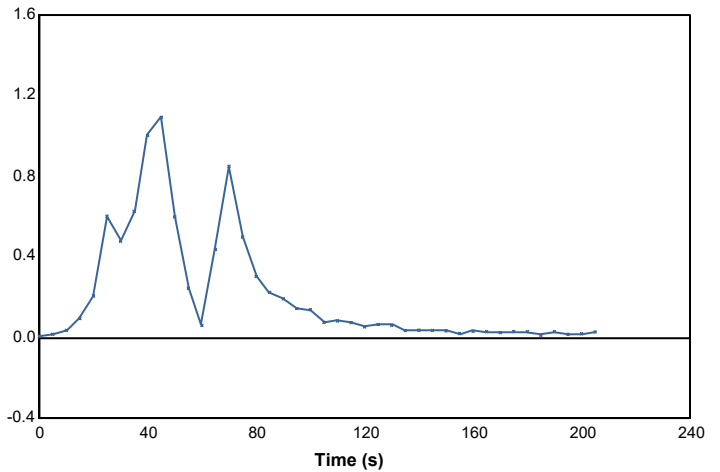
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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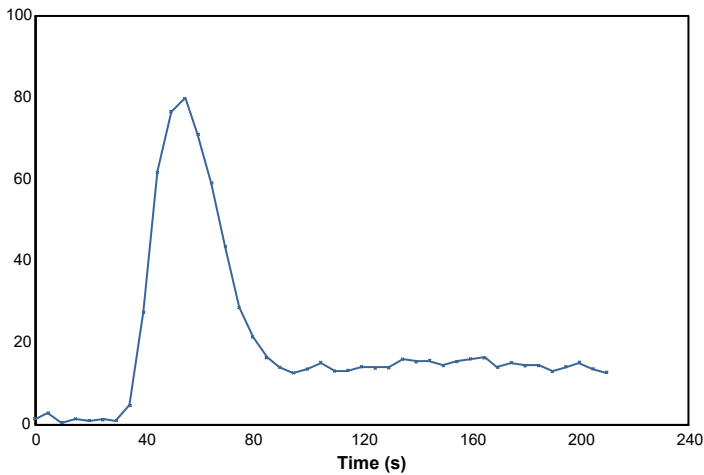
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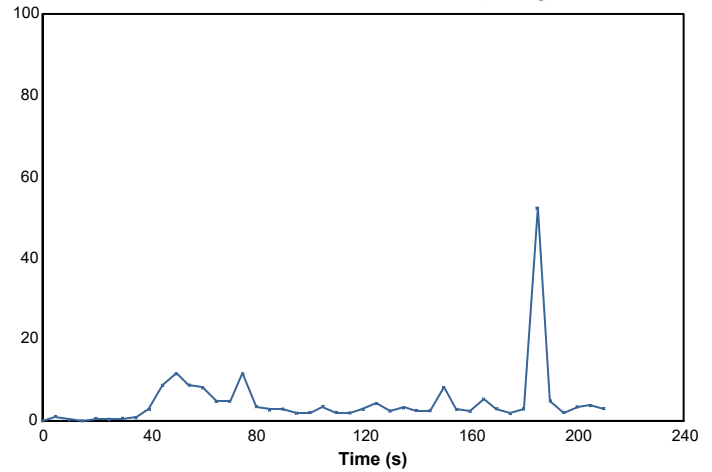
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Specimen : 2

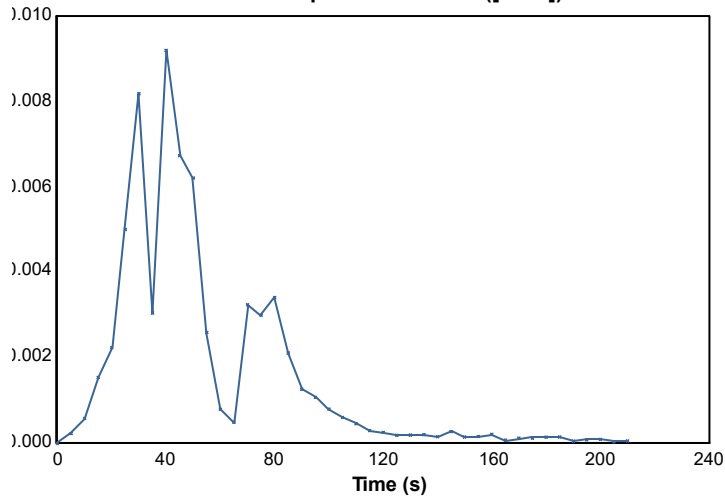
Heat release rate (kW/m²)



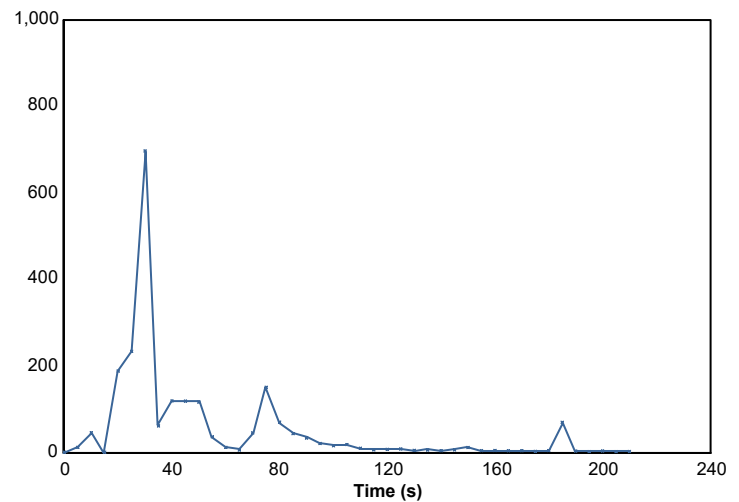
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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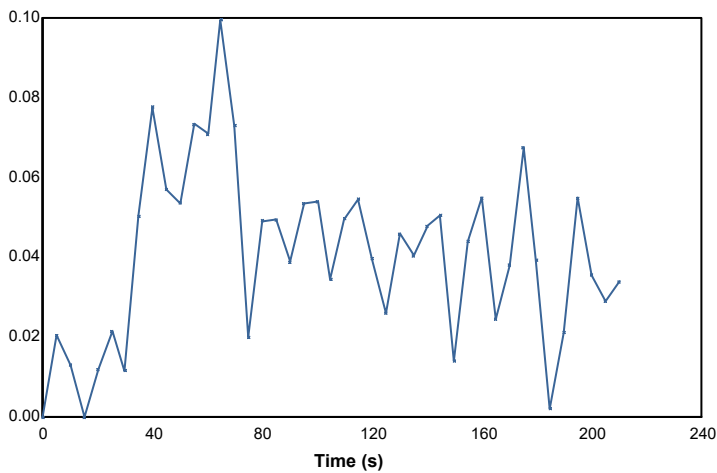
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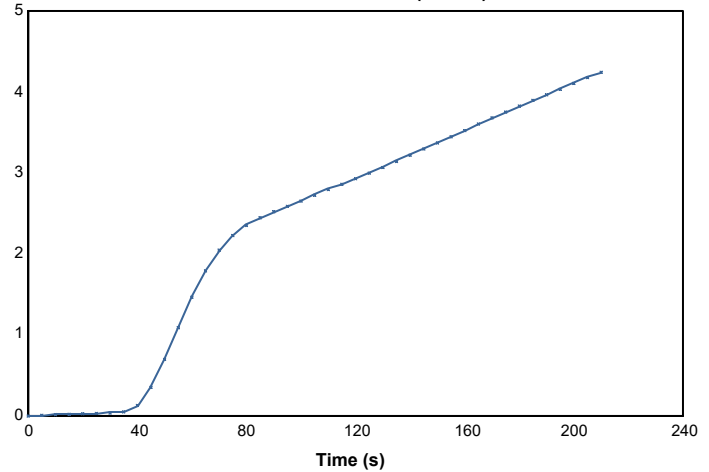
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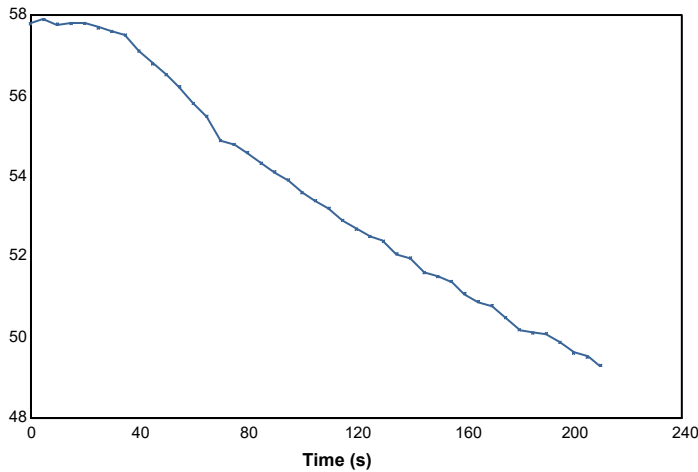
Mass loss rate (g/s)



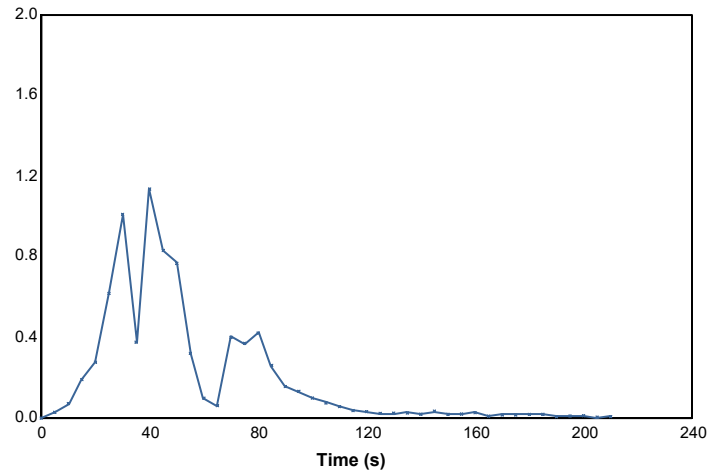
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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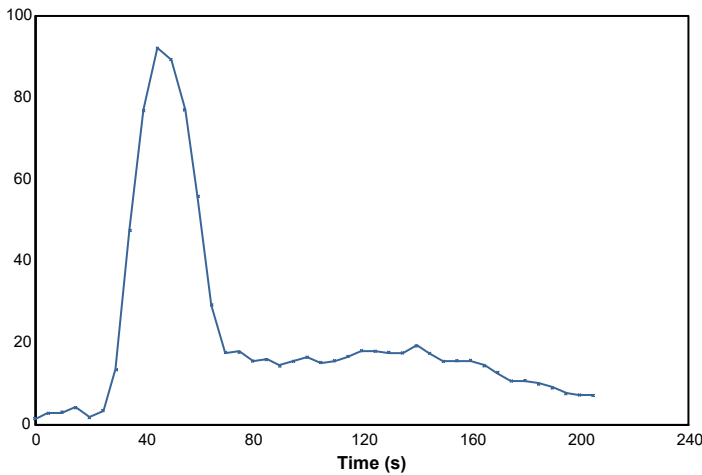
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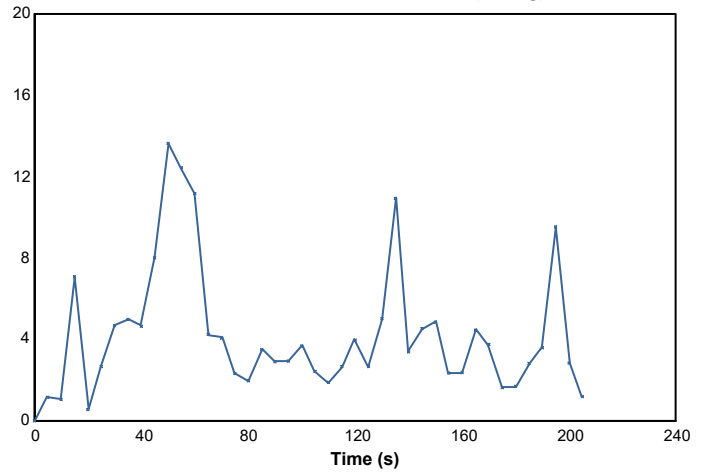
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Specimen : 3

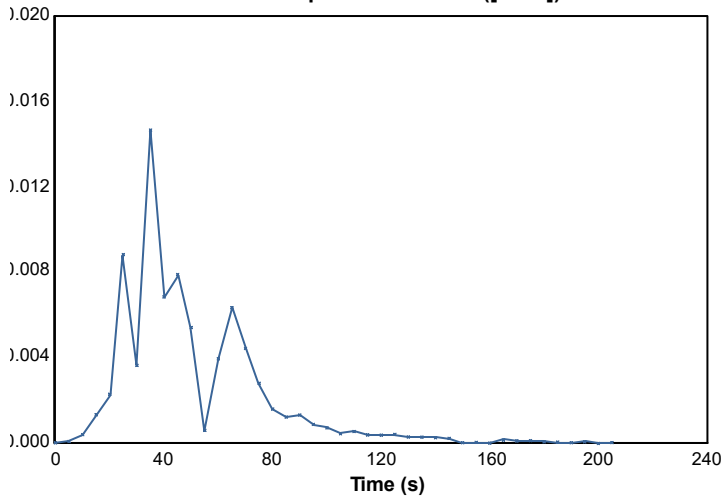
Heat release rate (kW/m²)



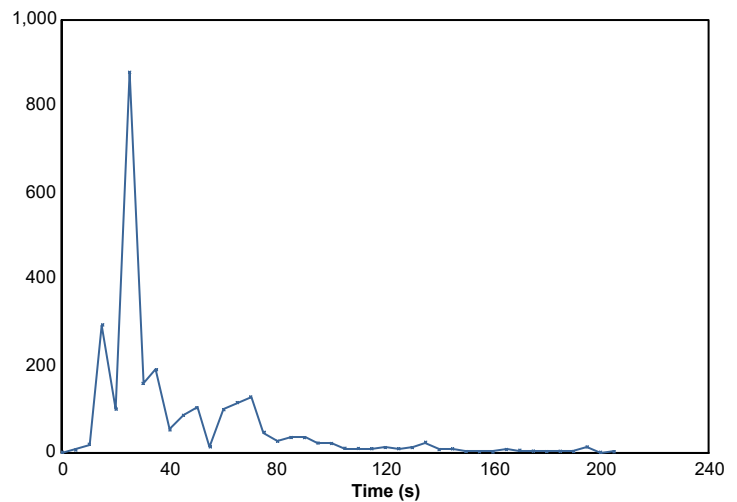
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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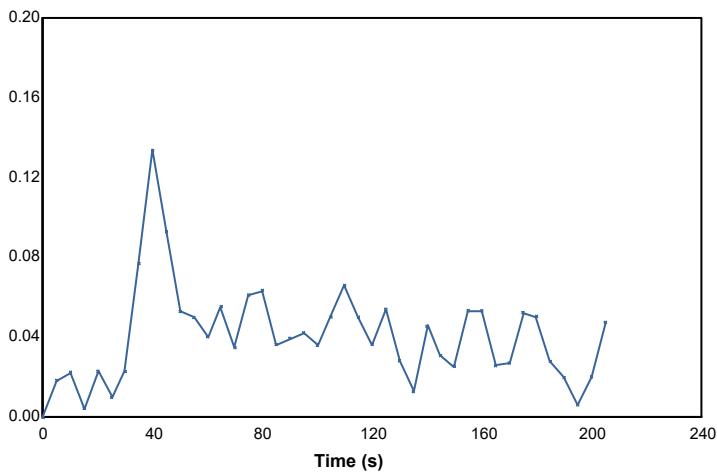
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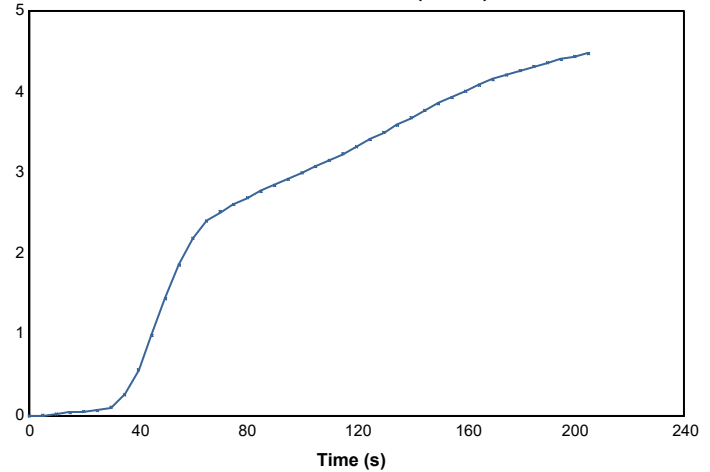
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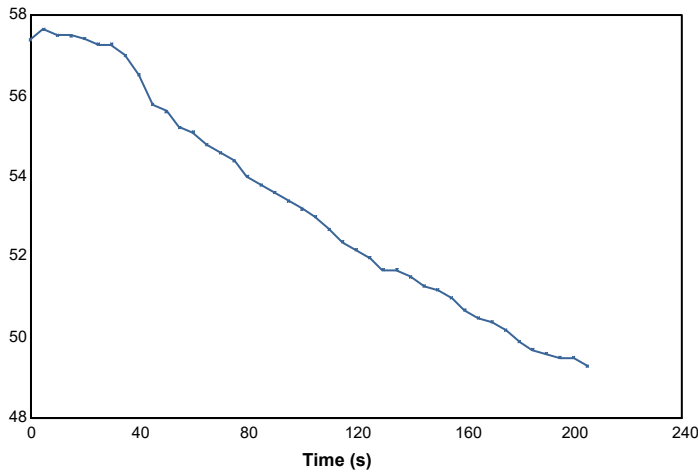
Mass loss rate (g/s)



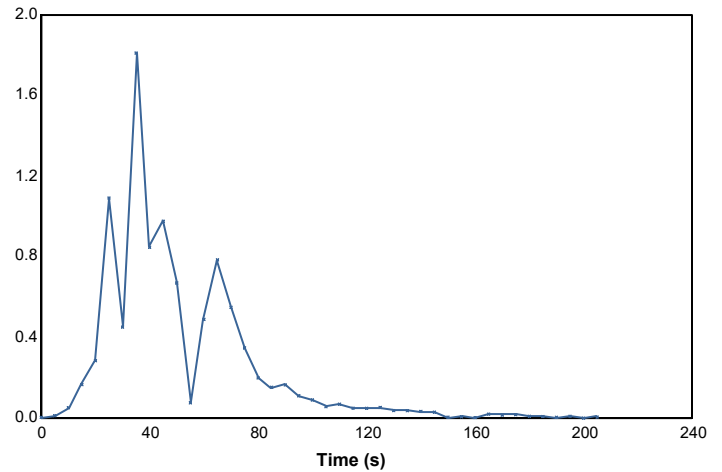
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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